

IN THE CLAIMS:

Kindly replace the claims of record with the following full set of claims:

1. (Currently amended): A pair of sunglasses comprising at least one electro-wetting lens incorporating first and second immiscible fluids of dissimilar light transmission properties, the first fluid being a better light transmitter than the second fluid, wherein variation in [[the]] a potential difference between first and second electrodes of each electro-wetting lens causes the shape of a boundary between the first and second fluids to alter from a first state in which the second fluid forms a layer across substantially an entire light transmitting area of an internal surface of the lens and light transmission is at a most reduced state to a second state in which light transmission is at a maximum, wherein one of said first and second electrodes is divided into a plurality of individually addressable lines sections to which said potential difference is sequentially applied.
2. (original): The sunglasses of claim 1 wherein in the second state the second fluid is confined to peripheral regions of the lens.
3. (Previously presented): The sunglasses of claim 1, wherein the lens comprises a transparent rear wall and a transparent front wall defining a cavity between them, within which the first and second fluids are confined.
4. (Previously presented): The sunglasses of claim 3, wherein the first and second

electrodes of the lens comprise a rear electrode formed in a region of the internal surface of the rear wall and a ring-electrode which extends around an internal periphery of the front wall.

5. (Previously presented): The sunglasses of claim 4, wherein an interior region of the front wall is hydrophobic or coated with a hydrophobic layer whilst the ring-type electrode is hydrophobically insulated.

6. (previously presented): The sunglasses of claim 1, wherein the natural state of the lens is the first state, and in this first state no potential difference is applied between electrodes of the lenses.

7. (original): The sunglasses of claim 6, wherein the first fluid is the fluid nearest the front wall, whilst the second fluid is the fluid having a boundary nearest the rear wall.

8. (previously presented): The sunglasses of claim 6, wherein the first fluid is a transparent non-conducting fluid, whilst the second fluid is a colored conductive and/or polar fluid.

9. (previously presented): The sunglasses of claim 1, wherein the natural state of the lens is the second state and in this state no potential difference is applied between electrodes of the lens.

10. (original): The sunglasses of claim 9, wherein the first fluid is the fluid nearest the rear wall, whilst the second fluid is the fluid having a boundary nearest the front wall.

11. (original): The sunglasses of claim 10, wherein the first fluid is a transparent polar and/or conductive fluid, whilst the second fluid is a colored non-conductive fluid.

12. (previously presented): The sunglasses of claim 10, wherein the thickness of the second fluid within an optical path area of the lens may be continuously varied by varying the potential difference between electrodes.

13. (previously presented): The sunglasses of claim 1, wherein progressive variation of the potential difference between the electrodes is arranged to progressively alter the shape of the boundary to provide a progressive alteration between the first and second states.

14. (Previously presented): The sunglasses of claim 1, wherein a hydrophobic insulator is formed on an interior region of the rear wall and also on a transparent rear electrode.

15. (Previously presented): The sunglasses of claim 14, wherein the first fluid is the fluid which, in the first state, has a boundary nearest the front wall, whilst the second

fluid is the fluid having a boundary nearest the rear wall.

16. (original): The sunglasses of claim 15, wherein the first fluid is a transparent polar and/or conductive fluid, and the second fluid is a colored non-conductive fluid.

17. (original): The sunglasses of claim 16, wherein the application of a potential difference between the electrodes causes the second fluid to be pushed toward side regions of the lens.

18. (Previously presented): The sunglasses of claim 1, wherein the curvature of the front wall, the curvature of the rear wall and the refractive index of the first and second fluids are arranged so as to correct a visual defect of a wearer.

19. (previously presented): The sunglasses of claim 1, wherein manual adjustment means are provided for altering the potential difference applied between the pairs of first and second electrodes.

20. (previously presented): The sunglasses of claim 1, wherein automatic adjustment means are provided for altering the potential difference applied between first and second pairs of electrodes.

21. (previously presented): The sunglasses of claim 1, wherein the first and second fluids are of substantially the same refractive index and specific gravity.

22. (Currently amended): Electro-wetting lens incorporating first and second immiscible fluids of dissimilar light transmission properties, the first fluid being a better light transmitter than the second fluid, wherein variation in ~~[[the]]~~ a potential difference between a first electrode and a second electrode ~~electrodes~~ of each electro-wetting lens causes ~~[[the]]~~ a shape of a boundary between the first and second fluids to alter from a first state in which the second fluid forms a layer across substantially an entire light transmitting area of an internal surface of the lens and light transmission is at a most reduced state to a second state in which light transmission is at a maximum, wherein one of said first and second electrodes is divided into a plurality of individually addressable lines sections to which said potential difference is sequentially applied.